

3" Linear LED Luminaire - Pendant Mount

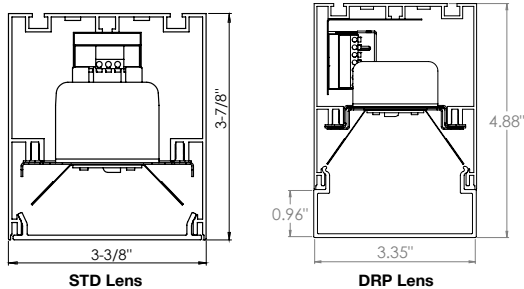
Project Name:

Fixture Type:

DESCRIPTION

The STUD™ is our most popular linear fixture. It is also the most flexible, allowing you to choose between recessed, surface or pendant mounted options with same extrusion. With the ability to connect one STUD™ to another, there's not much you can't do with this fixture.

DIMENSION



LUMEN PERFORMANCE

Input Watts	Nominal Delivered Lumen Output	Efficacy
LLW 5W/ft	497 lm/ft	99 lm/W
SLW 7.5W/ft	735 lm/ft	98 lm/W
HLW 9.38W/ft	896 lm/ft	96 lm/W

Performance based on 80 CRI, 4000K

CCT	80CRI Lumen Multiplier	90 CRI Lumen Multiplier	95 CRI Lumen Multiplier
2700K	0.906	/	0.651
3000K	0.925	0.728	0.691
3500K	0.964	0.743	0.711
4000K	1	0.756	0.748

ORDERING CODE

Example: **STUD3-PM-2-SLW-5RAW36-27K-WH-STD-90C-ST-EM**

Product	Length	Watts	Mounting Type	Color Temperature	Finish
STUD3-PM					
STUD3-PM	2 2 feet 4 4 feet 8 8 feet	SLW Standard 7.5 W/ft LLW Low 5 W/ft HLW High 9.38 W/ft CLW W/ft *	5RAW36 Standard- Feed +Non Feed 5 inch round white canopy with 36” aircraft cable (Default) 5RAB36 Feed+Non Feed 5 inch round black canopy with 36” aircraft cable	27K 2700K 30K 3000K 35K 3500K 40K 4000K	WH White Powder Coated (Default) BK Black Powder Coated XX Custom Color RAL#:
	System Run length with any inch increment Custom length with any inch increment (18 inch minimum length)	*(Custom watts/ft with max. 9.38W/ft, Consult factory for details)	Note: Custom Length/color available,See Table1 below.		*consult factory for availability
Optics	CRI	Driver	Optional		IC Control (Optional)

STD Standard lens DRP Drop lens	80C 80CRI 90C 90CRI 95C 95CRI Default CRI: 90C	ST Standard LES Lutron 1% Eco System with Soft-on, Fade-to- Black	EM Emergency Driver 6WH120 6 feet control whips-120V 6WH277 6 feet control whips-277V	DS Daylight sensor OS Occupancy sensor DOS Daylight & occupancy sensor
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AIR CRAFT CABLE AND STEM MOUNTING OPTION (TABLE 1)

Type	Canopy	Hardware	Color	Length
F Feed Kit N Non-Feed Kit	5R 5" Round (Default) 5S 5" Square Other sizes available, consult factory for details	A Air Craft Cable (Default) S Stem	W White (Default) B Black X Custom Color RAL#:	18 18 Inch 36 36 Inch (Default) 48 48 Inch 72 72 Inch XX Custom Length: Standard Length: Air Craft Cable: 36" Stem: 18"

SPECIFICATIONS

LED SYSTEM

WATTS: 5 W/ft, 7.5 W/ft, 9.38 W/ft

- COLOR TEMPERATURE: 2700K, 3000K, 3500K, 4000K
- LUMENS OUTPUT: 3 lumens output options STANDARD, LOW, HIGH as well as custom lumens output are available
- CRI: Minimum 90 color rendering index with an option of 95 CRI
- COLOR consistency: 3-step binning LEDs

OPTICS

Frosted snap-in spotless lens.

ELECTRICAL

Standard driver is a 120V/277V Constant current fully dimmable driver using 0-10V (down to 1%), dimming source current 150 μ A

LES driver is a Hi-lume EcoSystem with Soft-on, Fade-to-Black LED Driver, dim down to 1% and fade smoothly between 0%-1% is fully accessible from below the ceiling.

- FEED: Standard 18-gauge/5 conductor single circuit feed.
Optional 6' 120V/277V flex conduit whips available .
- EMERGENCY: Optional remote emergency driver

MOUNTING

PENDANT: White round canopy with an aircraft cable of 36 inches is provided by default with additional choices of black or custom colors. Stem or Air craft cable is available for pendant hanging options with lengths that can be 18, 36, 48, or 72 inches with the option for custom lengths; air craft cable is field adjustable to a specific length. For recommended placement of pendant mounts see **Page 3**.

CONSTRUCTION

- WEIGHT: surface/pendant 1.55 lbs/ft
recessed fixture 1.95 lbs/ft
- HOUSING: Precision-cut extruded aluminum housing.
- HOUSING FINISH: Standard power-coated matte white. Consult factory for custom power coating finish
- END CAPS: Die-formed steel end caps add 1/8" to each end of fixture.
- SPACKLE FLANGE: Extruded aluminum (0.0475" nominal).
- REFLECTORS: Die-formed steel reflectors with high reflectance glossy white powder coat finish, 60 degree beam spread.
- QUICK CONNECTOR: Push-in quick connectors allow fixtures to be joined together for a long run with only one input power wiring.

FIXTURE LENGTH

Individual Run: Nominal length of 2ft (23.75"), 4ft(47.75"), 8ft (94.75") as well as custom length are available down to inch increment with 18" minimum length.

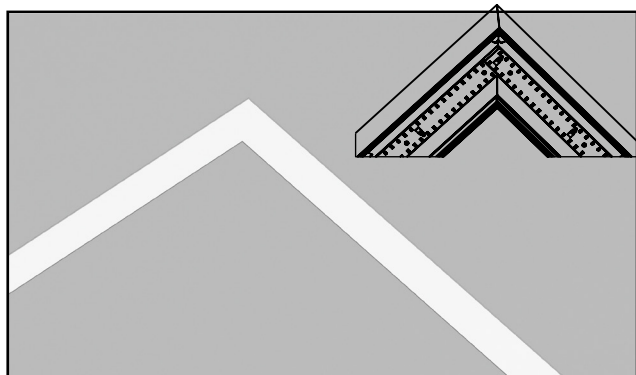
*System Run: A seamless connection system of continuous runs. Runs of STUD3 that are longer than 8' in length are designated as System Run. 90-degree mitered corner are available for inside/outside and zig-zag corners.

- APPROVALS: UL/C-UL listed-E493134
Suitable for damp location
IC rated for recessed mount insulated ceiling
- WARRANTY: 5 Year Limited Warranty
- LIFE: > 50,000 hours at 70% lumen maintenance (L70)



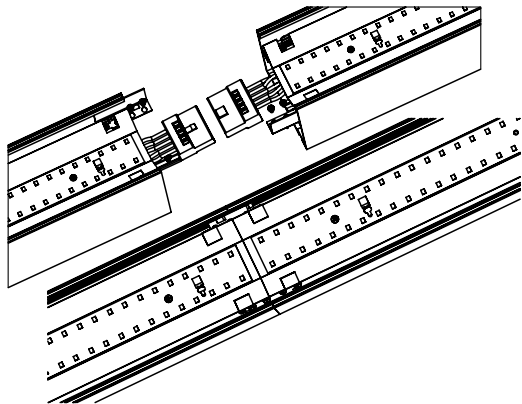
CORNER RUN

STUD3 has the ability to connect corners to form custom rectangular or L-shaped pendant fixtures.



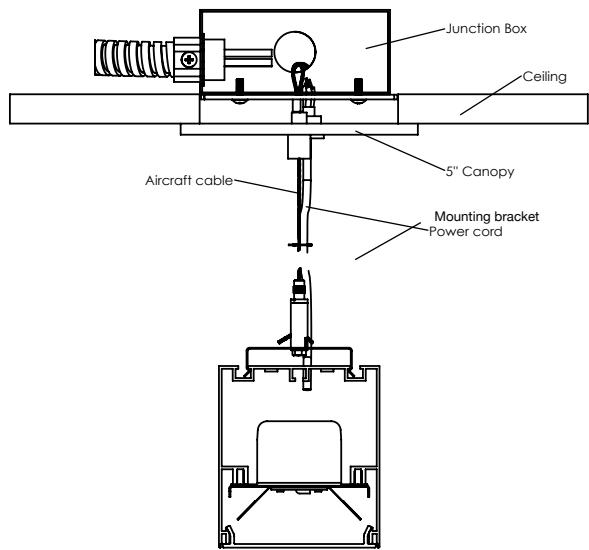
SYSTEM RUN

Quick-wire connection system allows STUD3 to be joined together with only one line power input to the continuous system runs. The STUD3 unit with line power input is connected to next unit with quick-wire connectors.



Note: Mount each system segment individually prior to joining them together

MOUNTING



Note: Suspension points:
Fixture less than 8', 24" max in from the end;
Fixture less than 4', 12" max in from the end.

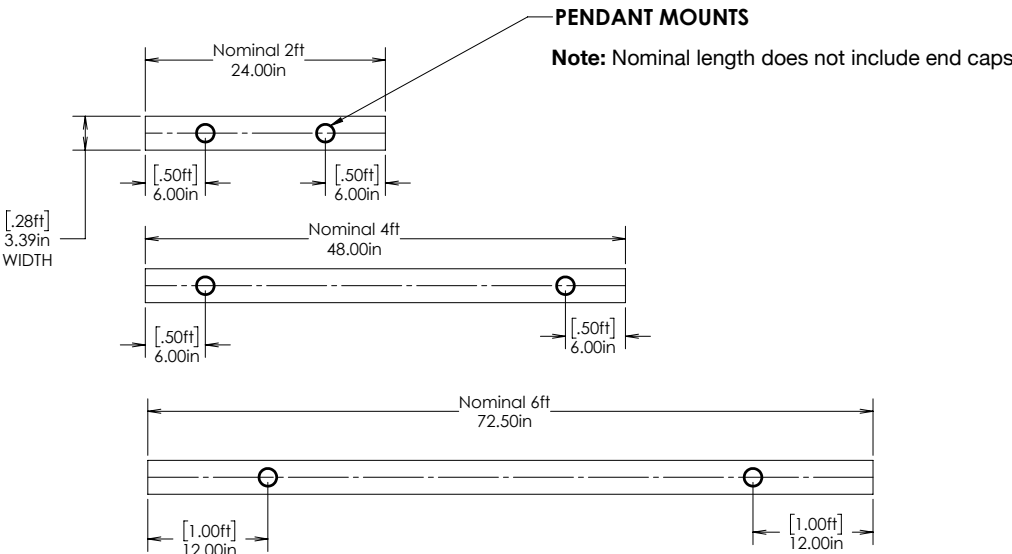
DIMMER COMPATIBILITY CHART

Standard Driver ST					
Dimmer Manufacturer	Product	Part Number	Dimming Range	Qty Fixture Per Control	Dimming Type
120V/277V					
Lutron	Diva	DVSTV/ DVSCSTV	100%-1%	1-14	0-10 V
Lutron	Nova T	NTSTV-DV	100%-1%	1-14	0-10 V
Lutron	Nova	NFTV*	100%-1%	1-14	0-10 V

* NFTV "DIMMING ONLY" or "USE WITH PowPak for Dimming+on/off"

RECOMMENDED PENDANT PLACEMENT

These are suggested locations to place the pendant mounts, other configurations are acceptable and are always field adjustable.

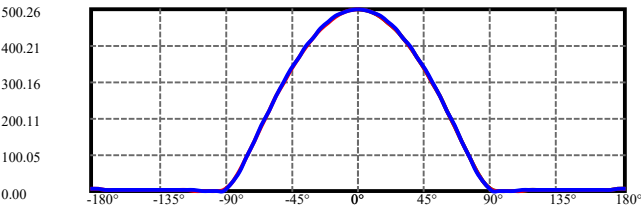
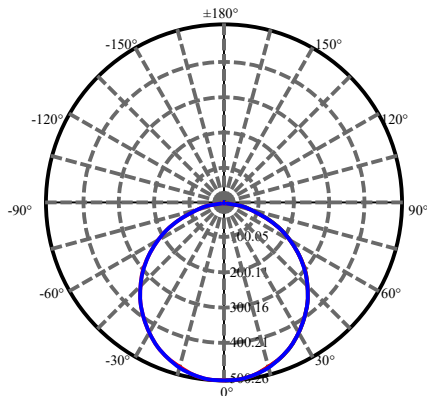


PHOTOMETRIC DATA

Luminaire: STUD3 4 feet
Watts: 20W (5W/ft)
Total delivered lumens: 1445 lm (362 lm/ft)
CCT: 3000K
CRI: 90C

IES FILE: STUD3-PM-4-20W-WH-30K-STD-90C-ST

Luminous Intensity Distribution Diagram



C0(Max):
C0/C180:
C90/C270:
Field angle(10%Imax):C0/180Left:80.7 Right:80.7
:C90/270Left:80.5 Right:80.5
Beam Angle(50%Imax):C0/180Left:56.3 Right:56.3
:C90/270Left:56.4 Right:56.4

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	387.7	26.8%
0-40	635.2	43.9%
0-60	1,125.6	77.9%
60-90	305.3	21.1%
70-100	129.28	.9%
90-120	4.40	.3%
0-90	1,430.9	99%
90-180	14.61	%
0-180	1,445.6	100%

FLOOD SUMMARY

	EFFICIENCY	LUMENS	HORIZONTAL SPREAD	VERTICAL SPREAD
FIELD (10%):	97.3%	1,406.8	161.4	161.1
BEAM (50%):	72.2%	1,044.2	112.6	112.9
TOTAL:	99%	1,431.0		

ILLUMINANCE AT A DISTANCE

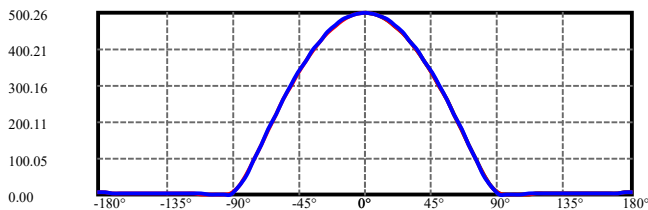
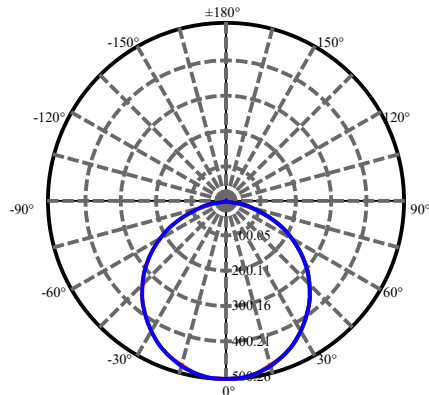
	CENTER BEAM	BEAM SPREAD(FT)	FIELD SPREAD(FT)
HEIGHT(FT)	FOOTCANDLE	HORIZONTAL	VERTICAL
4.00	31.27 FC	12.0	12.14
8.00	7.82 FC	24.0	24.1
12.00	3.47 FC	36.0	36.21
16.00	1.95 FC	48.04	8.2
20.00	1.25 FC	60.0	60.32
		BEAM ANGLE	FIELD ANGLE
		112.6°	112.9°
			161.4°
			161.1°




■ PHOTOMETRIC DATA

Luminaire: STUD3 4 feet
Watts: 30W (7.5W/ft)
Total delivered lumens: 2140 lm (535 lm/ft)
CCT: 3000K
CRI: 90C

IES FILE: STUD3-PM-4-30W-WH-30K-STD-90C-ST

Luminous Intensity Distribution Diagram



C0(Max): 
C0/C180: 
C90/C270: 
Field angle(10%Imax):C0/180Left:80.7 Right:80.7
:C90/270Left:80.5 Right:80.5
Beam Angle(50%Imax):C0/180Left:56.3 Right:56.3
:C90/270Left:56.4 Right:56.4

FLOOD SUMMARY

	EFFICIENCY	LUMENS	HORIZONTAL SPREAD	VERTICAL SPREAD
FIELD (10%):	97.3%	2,082.2	161.7	161.5
BEAM (50%):	72.2%	1,545.1	112.5	112.8
TOTAL:	99%	2,117.9		

ILLUMINANCE AT A DISTANCE

HEIGHT(FT)	CENTER BEAM	BEAM SPREAD(FT)		FIELD SPREAD(FT)	
	OOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
4.00	46.29 FC	12.0	12.0	49.7	49.1
8.00	11.57 FC	24.0	24.1	99.3	98.2
12.00	5.14 FC	35.9	36.1	149.0	147.4
16.00	2.89 FC	47.9	48.2	198.7	196.5
20.00	1.85 FC	59.9	60.2	248.3	245.6
		BEAM ANGLE		FIELD ANGLE	
		112.5°	112.8°	161.7°	161.5°

ZONAL LUMEN SUMMARY

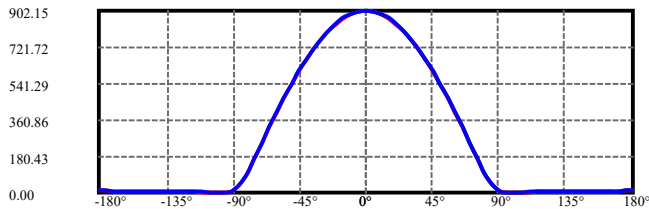
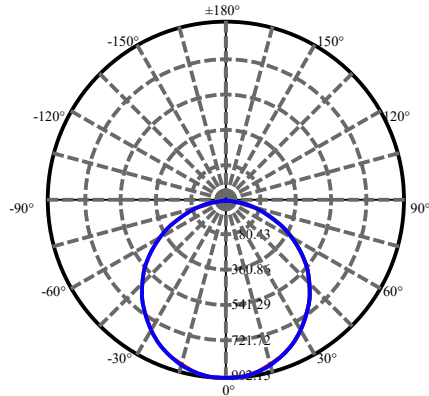
ZONE	LUMENS	% LUMINAIRE
0-30	573.9	26.8%
0-40	940.3	43.9%
0-60	1,665.9	77.9%
60-90	452.0	21.1%
70-100	191.48	.9%
90-120	6.70	.3%
0-90	2,117.8	99%
90-180	22.01	%
0-180	2,139.8	100%

PHOTOMETRIC DATA

Luminaire: STUD3 4 feet
 Watts: 37.5W (9.38 W/ft)
 Total delivered lumens: 2607lm (652 lm/ft)
 CCT: 3000K
 CRI: 90C

IES FILE: STUD3-PM-4-37.5W-WH-30K-STD-90C-ST

Luminous Intensity Distribution Diagram



C0(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:80.6 Right:80.6

:C90/270Left:80.6 Right:80.6

Beam Angle(50%Imax):C0/180Left:56.4 Right:56.4

:C90/270Left:56.4 Right:56.4

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	699.2	26.8%
0-40	1,145.5	44%
0-60	2,030.1	77.9%
60-90	549.3	21.1%
70-100	231.88	.9%
90-120	8.20	.3%
0-90	2,579.4	99%
90-180	26.91	%
0-180	2,606.3	100%

FLOOD SUMMARY

	EFFICIENCY	LUMENS	HORIZONTAL SPREAD	VERTICAL SPREAD
FIELD (10%):	97.3%	2,535.6	161.3	161.1
BEAM (50%):	72.3%	1,884.3	112.7	112.9
TOTAL:	99%	2,579.5		

ILLUMINANCE AT A DISTANCE

	CENTER BEAM	BEAM SPREAD(FT)	FIELD SPREAD(FT)
HEIGHT(FT)	FOOTCANDLE	HORIZONTAL	VERTICAL
4.00	56.38 FC	12.0	12.1
8.00	14.10 FC	24.1	24.1
12.00	6.26 FC	36.1	36.2
16.00	3.52 FC	48.1	48.2
20.00	2.26 FC	60.1	60.3
		BEAM ANGLE	FIELD ANGLE
		112.7°	112.9°
		161.3°	161.1°